

PATENT ABSTRACTS OF JAPAN (Continued)

(11)Publication number : 2000-021577

(43)Date of publication of application : 21.01.2000

(51)Int.Cl.

H05B 33/22
H05B 33/14

(21)Application number : 10-183138

(71)Applicant : NIPPON SEIKI CO LTD

(22)Date of filing : 30.06.1998

(72)Inventor : TADOKORO TOYOYASU
OKAWA HIROSHI
WAKAI HITOSHI

(54) ORGANIC ELECTROLUMINESCENCE

(57)Abstract:

PROBLEM TO BE SOLVED: To moderate a step difference of an organic layer, to prevent an electric field concentration and to improve reliability by interposing an insulating layer in a place having the possibility of rupturing the organic layer in a step difference place of an anode.

SOLUTION: An anode 3 composed of a transparent conductive material, an organic layer 4 and a cathode 5 composed of a metallic conductive material are formed on a transparent base board 2. The emitting light according to a pattern A from the organic layer 4 can be seen through the transparent base board 2 by impressing DC voltage of several to several ten volts between the anode 3 and the cathode 5. An insulating layer 6 is interposed in a place having the possibility of rupturing the organic layer 4 by an electric field concentration in a step difference place of the anode 3. Thus, covering performance of the step difference place of the anode 3 is improved, a step difference of the organic layer 4 is moderated, and an electric field concentration in this step difference place is prevented to prevent rupture of the organic layer 4. A photosensitive resin material capable of easily making an optional shape is desirable as a material for forming the insulating layer 6.

